

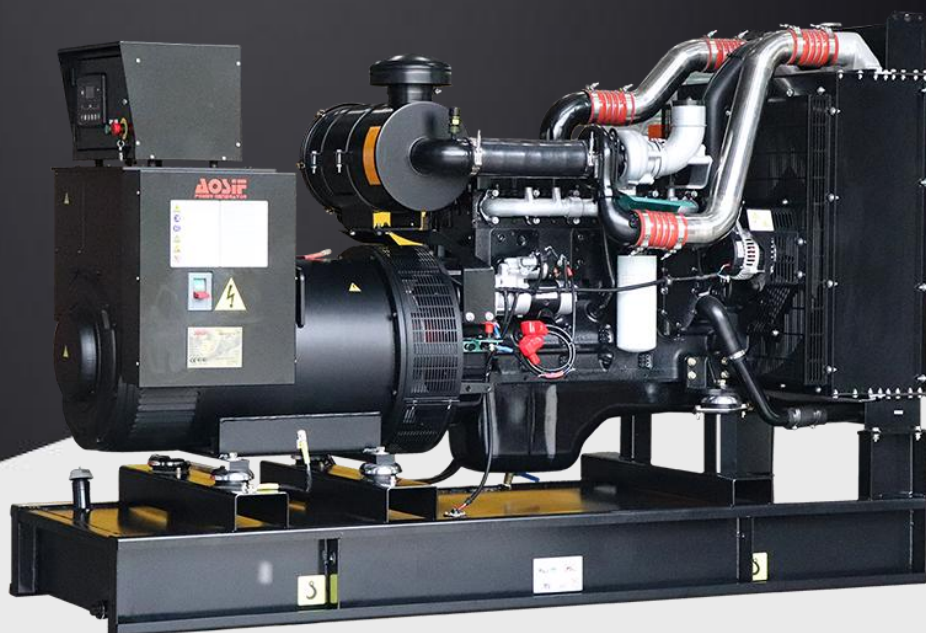
AOSIF Cummins Series

Product introduction

AOSiF
POWER GENERATOR



Model AC715 Generator set **715KVA/572KW Standby**



XIAMEN AOSIF ENGINEERING LTD.

General Performance Data

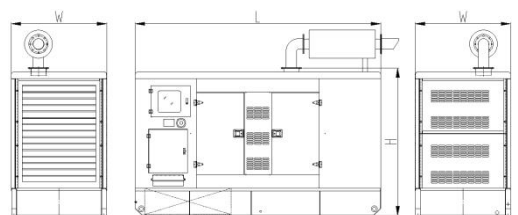
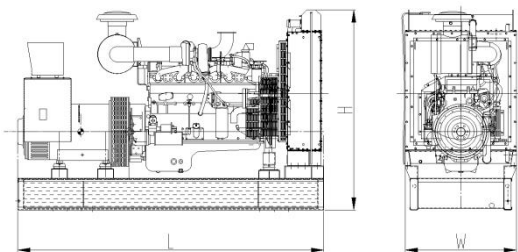
Prime Power	650KVA/520KW	Engine	Brand	Cummins
Stand by Power	715KVA/572KW		Model	QSK19-G4
Frequency/Speed	50Hz/1500rpm	Control module	Deepsea 7320	
Rated Power Factor(cosφ)	0.8	Rated Current	938A	
Standard Voltage	230V/400V	Capacity of Breaker	1250A	
Phases	3	Starting Voltage	DC24V	

Fuel consumption

Rated output	Fuel consumption rate	
100%Standby	216g/KW.h	161L/h
100%Prime	215g/KW.h	145L/h
75%Prime	219g/KW.h	111L/h
50%Prime	234g/KW.h	79L/h
25%Prime	243g/KW.h	41L/h

Standards followed

ISO9001 ISO14001



Dimensions and Weights

Type	Open	Silent
Length(mm)	3670	4300
Width(mm)	1560	1900
Height(mm)	2400	2480
Weight(kg)	4900	5830
Base fuel tank volume (L)	1100	1100

Engine specification

Basic parameter

Manufacturer	Chongqing Cummins
Model	QSK19-G4
No. of cylinder	6
Type	4 cycle, Vertical In-line
Prime Power	574kw /770HP
Standby Power	634kw /850HP
Induction system	Turbocharged and Charge Air Cooled
Governor	ECU
Bore x Stroke	159x159mm
Displacement	18.9L
Compression ratio	15.0:1
Oil Capacity(Total)	84.4L
Coolant Capacity(Engine only)	41.6L
Cranking Motor Voltage	DC24V

Fuel System

Type Injection system	Cummins MCRCs
Maximum Supply Fuel Flow	454 L/h

Lubrication system

Oil Pressure	
---Idle speed	138kPa
---Rated speed	275.8-413.7kPa
Max. allowable oil temperature	121°C
Oil Pan capacity - Low/High	64.4 /71.9L
Total system capacity	84.4L

Air induction system

Maximum allowable intake air restriction	
---with clean filter element	2.5kPa
---with dirty filter element	6.2kPa
Intake Air alarm temperature	82°C

Exhaust system

Max. allowable back pressure	5.1kpa
Standard exhaust pipe diameter	149mm

Cooling system

Coolant capacity	
---Engine only	41.6L
Standard thermostat(modulating) range	83-95°C
Max. allowable top tank temperature for stand by/prime power	104/100 °C

Electric system

Min. recommended battery capacity (24V)	
---Cold Soak @ 50 °F (10 °C) and above	600
-- Cold Soak @ 32 °F to 50 °F (0 °C to10 °C)	640
--Cold Soak @ 0 °F to 32 °F (-18 °C to 0 °C)	900
Max. allowable resistance of Starting circuit	0.002ohm
Starter(heave,Anode)	DC24V

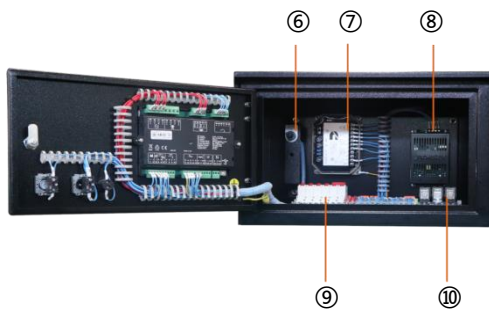
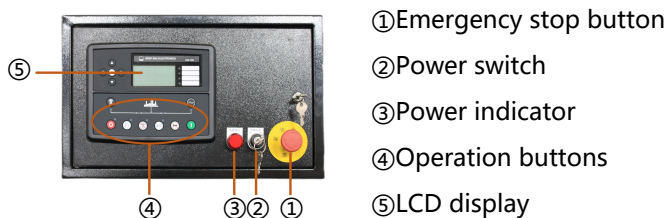
Alternator specification Leroy Somer TAL-A473-F/528KW

Phases	3	Coating	Vacuum impregnation
Poles	4	Insulation class	H
Power factor(cosφ)	0.8	Protection	IP23
Winding connection	Star	Excitation system	Self-excited
Winding pitch	2/3	Bearing	Single Bearing
Voltage regulator type	AVR	Coupling	Flexible disc

Control system Introduction

Deepsea 7320 Auto start & auto mains failure control panel

Deepsea 7320 is an auto mains failure controller for single generator, it can monitor and protect the generator working all the time. it has a LCD display which clearly shows the status of the engine. this controller include seven inputs and six outputs. This controller can also be programmed using the front panel or by using DSE configuration Suite PC software



Key Features:

- Auto start/stop, load transfer and alarming of generator
- Remote start on or off load
- With hierarchical loading function
- Multiple start/stop cycles can be preset
- 3 phase generator and mains voltage monitoring.
- Generator/load power detection(kW, kVA, kVA_r PF)
- Overload protection (kW)
- Load current monitoring and protection
- Engine speed protection
- Engine pre-heat
- Engine start idle & stop idle
- Battery voltage monitoring
- Start under the low battery
- 8 configurable outputs
- 8 configurable input
- Integral PLC editor
- Tler 4 CAN engine support
- Data logging facility
- DSE2130,DSE2157,DSE2548 expansion module can be connected
- Support 0-10V or 4-20mA oil pressure sensor

Main features:

- Multi language display
- Mains failure self starting
- The running time of the engine can be recorded to facilitate the maintenance and repair of the unit
- User-friendly set-up and button layout
- LCD display can display multiple parameters at the same time
- Support EFI engine
- IP65 rating (with optional gasket)
- PC and front panel configuration
- 100 event records
- Data recording and trend analysis

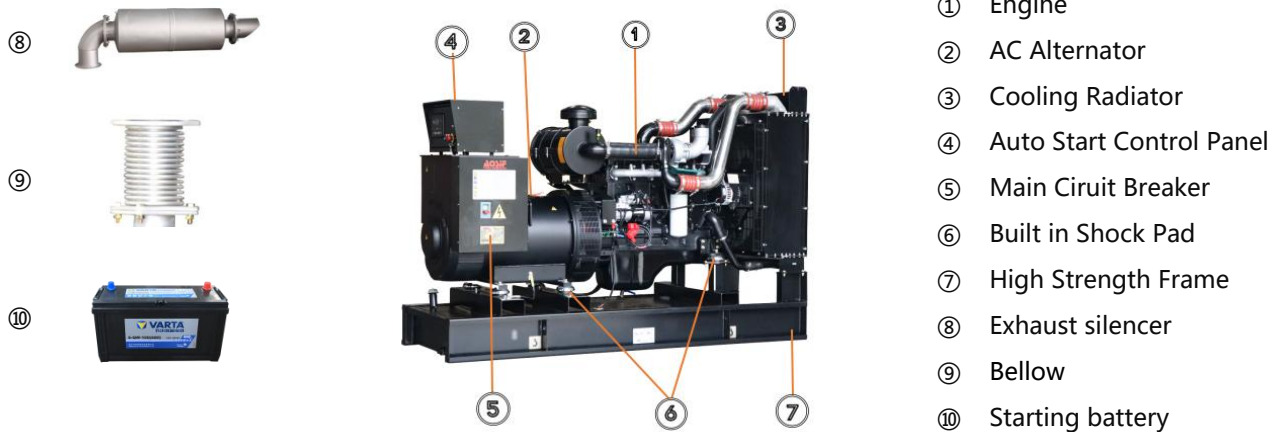
Protection:

- Two sets of protection parameters can be preset
- Normal alarm, electrical trip and shutdown alarm can be set to effectively monitor the engine speed,oil pressure, water temperature and oil level, as well as the frequency, voltage, current and power of the alternator, for complete engine/alternator protection
- Low Oil Pressure
- High water Temperature
- High voltage and low voltage
- Overspeed
- Emergency stop
- Fail to start

Decomposition diagram introduction of AOSIF Typical Canopy



Standard supply scope:



Optional supply scope:

Genset	Engine	Alternator	Control system
<ul style="list-style-type: none"> • Tool box • Base fuel tank • External daily fuel tank • Trailer 	<ul style="list-style-type: none"> • Fuel heater • Fuel and water separator 	<ul style="list-style-type: none"> • Temp. detector for winding and bearing • PMG • Antirust, mildew and salt fog treatment • Anti condensation heater 	<ul style="list-style-type: none"> • ATS • Synchronization System • Adjustable earth relay
Breaker	Fuel system	Lub-oil system	Cooling system
<ul style="list-style-type: none"> • ABB • Schneider 	<ul style="list-style-type: none"> • Low fuel level alarm • Auto Fuel Pump • T Valve 	<ul style="list-style-type: none"> • Lub oil heater • Temp.-sensor • Oil drain Pump 	<ul style="list-style-type: none"> • Elec.coolant Heater

Our Promises

- AOSIF Engineering provides a full line of brand new and high quality products.
- Each unit passes strictly loading test in factory before shipment.
- Quality Warranty is provided strictly in accordance with warranty terms.
- Three level service guarantee: Aosif dealers, Service outlets of engine/alternator manufacturers, Aosif service team.



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You may get more information from our official account.

Specifications are subject to change without notice.